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(54) **BIOLOGICAL PARTICLE ANALYZER AND METHOD OF ANALYZING BIOLOGICAL PARTICLES**

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See application file for complete search history.

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(57)

ABSTRACT

A biological particle analyzer is disclosed and includes a microchannel including an end coupled to a first drive electrode, another end coupled to a second drive electrode, a first detection area at an upstream location and an excitation area at a downstream location for containing particles flowing from the upstream location to the downstream location inside the microchannel, a first detection circuit coupled to the first detection area for outputting a first detection result when at least one particle has arrived at the first detection area, a light emission source, and a control module coupled to the first detection circuit and the light emission source for determining when to turn on or off the light emission source according to the first detection result.

19 Claims, 8 Drawing Sheets

